

# **NIPOMO COMMUNITY SERVICES DISTRICT**

**MONDAY, August 23, 2010**

**2:00 P. M.**

## **SPECIAL MEETING NOTICE & AGENDA**

### **SUPPLEMENTAL WATER PROJECT DESIGN AND CONSTRUCTION COMMITTEE**

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#### **COMMITTEE MEMBERS**

ED EBY, CHAIR  
JAMES HARRISON, MEMBER

#### **PRINCIPAL STAFF**

DON SPAGNOLO, GENERAL MANAGER  
LISA BOGNUDA, ASSIST. GENERAL MANAGER  
MARRIE WALLRAVIN, SECRETARY/CLERK  
JON SEITZ, GENERAL COUNSEL  
PETER SEVCIK, DISTRICT ENGINEER

#### **MEETING LOCATION**

**District Board Room, 148 S. Wilson Street, Nipomo, California**

- 1. CALL TO ORDER, ROLL CALL AND FLAG SALUTE**
- 2. REVIEW SUPPLEMENTAL WATER DEVELOPMENT STATUS**  
  
ACTION RECOMMENDED: Receive Report
- 3. AECOM DESIGN STATUS UPDATE OF WATERLINE INTERTIE PROJECT**  
  
ACTION RECOMMENDED: Receive Report
- 4. REVIEW AECOM CONTRACT AMENDMENT FOR WATER INTERTIE PROJECT**  
  
ACTION RECOMMENDED: Forward Recommendation to Board
- 5. SET NEXT COMMITTEE MEETING**  
  
ACTION RECOMMENDED: Set Time/Date for Next Committee Meeting
- 6. ADJOURN**

*\*\*\* End Special Meeting Notice \*\*\**

TO: COMMITTEE MEMBERS

FROM: DON SPAGNOLO  
GENERAL MANAGER 

DATE: AUGUST 19, 2010

## AGENDA ITEM

# 2

AUGUST 23, 2010

### REVIEW SUPPLEMENTAL WATER DEVELOPMENT STATUS

#### ITEM

Review status of supplemental water development [RECEIVE REPORT].

#### BACKGROUND – WATERLINE INTERTIE PROJECT

Mike Nunley from AECOM is scheduled to summarize the Monthly Design Phase Status Report at the Committee Meeting – See Agenda Item 3.

Staff and AECOM continue to work on obtaining all of the necessary permits and approvals required for the project.

Staff is reviewing the 90% complete plans for Bid Package #4, the Joshua Street Pump Station and Reservoir, as well as the draft final plans for Bid Package #2, the Nipomo Area Pipeline Improvements and Bid Package #3, the Blosser Road Pipeline.

The MOU with the SLO County is scheduled for consideration by the County Board of Supervisors on September 14, 2010. The project schedule has been revised to incorporate the Board approval date.

#### RECOMMENDATION

Staff recommends that the Committee receive the staff update and ask questions as appropriate.

#### ATTACHMENT

- NONE

TO: COMMITTEE MEMBERS

FROM: DON SPAGNOLO  
GENERAL MANAGER



DATE: AUGUST 19, 2010

## AGENDA ITEM

# 3

AUGUST 23, 2010

### AECOM DESIGN STATUS UPDATE OF WATERLINE INTERTIE PROJECT

#### ITEM

Presentation and review of the monthly design status update for the Waterline Intertie Project by AECOM [RECEIVE REPORT].

#### BACKGROUND

Mike Nunley is scheduled to summarize the attached report.

#### RECOMMENDATION

Staff recommends that the Committee receive AECOM's presentation and ask questions as appropriate.

#### ATTACHMENT

- AECOM August 2010 Waterline Intertie Project Monthly Design Status Report

## Memorandum

To	Don Spagnolo, General Manager – NCSD	Page	1
CC	Peter Sevcik, Jon Hanlon, Josh Reynolds, Jim Froelicher, Eileen Shields, Kirk Gonzalez		
Subject	Waterline Intertie Project – Design Phase Status Report		
From	Michael K. Nunley, AECOM		
Date	August 18, 2010		

The Project Team has completed the following work items this month:

1. AECOM submitted the public lot application for the reservoir / pump station site to the County.
2. AECOM provided the District with the final submittal for Bid Package #3 (Blosser Road Water Main and Flow Meter) plans and technical specifications.
3. The project team compiled comments on the Streambed Alteration Agreement drafted by California Department of Fish and Game (CDFG), sent a response, and requested a follow-up meeting to discuss conditions of the permit.
4. AECOM is continuing work to update the construction cost opinion to reflect the 90% designs for Bid Packages #2, #3, and #4.
5. AECOM has updated the table of project permits (attached).

### Schedule

The Project Schedule is attached and has been updated to reflect the current project status.

### Budget Status

As shown on the attached Design Budget and Invoice Summary, our fee earned is slightly ahead of the work completed under Task 3.

Yours Sincerely,



Michael K. Nunley, PE

Enclosures: Permits & Status; Design Budget & Invoice Summary; Project Budget Summary; Project Schedule

**Nipomo Community Services District  
Waterline Interlie Project  
Permit Status**

updated:

7/20/2010

Permitting Agency	Permit	Status	Issue Date	Expiration Date	Notes
CalTrans	Encroachment	Received	7/1/2010	12/30/2011	BP2 Hwy 101 Xing
CalTrans	Encroachment	Contractor to apply			"Dual Permit"
SLO County	Encroachment				BP2 - NCSD to submit for draft conditions
SLO County	Encroachment	Contractor to apply			
City of Santa Maria	Encroachment	Contractor to apply			BP3
CA Fish & Game	Streambed Alteration Agreement	Received draft permit			AECOM & NCSD staff drafting comments for F&G
ACOE	404 & other permits	Received exemption	3/25/2010		
DOSH (OSHA)	Tunnel Classification	Received	3/22/2010; 3/30/2010	NA	2 jack & bore locations in BP3
DOSH (OSHA)	Excavations > 5 ft	Contractor to apply			
DOSH (OSHA)	Certification of safety Reps for tunneling	Contractor to apply			
SLO APCD	Authority to Construct / Permit to Operate	NCSD to apply			apply at start of bid phase
SLO APCD	Naturally Occurring Asbestos	Received exemption	11/2/2009		
RWQCB	Notice of Intent to Discharge	NCSD to file			NPDES/ Stormwater General Permit
RWQCB	SWPPP	Contractor to complete			
DPHS	Water Supply Permit Amendment	NCSD to file (min 4 mo. Prior to WIP startup)			AECOM working with DPHS for preliminary comments on 90% design

Item	Description	Budgeted Amount May 2008 PER	Updated Amount 17-Mar-09	Updated Amount 22-Apr-09 Concept Design Report	Updated Amount Dec-09 60% Design Plans
1	Mobilization	\$580,000	\$580,000	\$607,000	\$706,800
2	Blosser Extension (18-in)	\$1,247,000	\$1,247,000	\$1,129,000	\$1,148,800
3	Pump Station No. 1 turnout & meter (Blosser Rd)	\$61,000	\$61,000	\$158,000	\$166,400
4	River Crossing (24-in HDD & levee jack & bore)	\$6,135,000	\$6,135,000	\$5,462,500	\$5,414,200
5	24-in Pipeline to Joshua	\$656,000	\$656,000	\$400,000	\$399,500
6	Reservoir (0.5-MG)	\$1,361,000	\$1,361,000	\$1,365,000	\$1,364,700
7	Pump Station No. 2	\$603,000	\$603,000	\$1,572,500	\$1,512,300
8	Pressure Regulators (200 homes)	\$30,000	--	--	--
9	Pressure Reducing Valve Stations	\$18,000	\$72,000	\$243,000	\$290,100
10	Chloramination (Joshua & 5 wellheads)	\$707,000	\$707,000	\$739,500	\$739,200
11	Upgrade Southland to 12-in	\$799,500 (1)	\$780,000 (7)	\$849,000	\$828,900
12	Upgrade Frontage to 12-in	\$1,101,300 (1)	\$880,000 (7)	\$957,000	\$958,600
13	Upgrade Orchard to 12-in	\$509,000	\$1,040,000 (8)	\$1,103,500	\$1,200,800
14	Upgrade Division to 10-in between Allegre and Meridian (6)	\$53,000	--	--	--
15	Oakglen Avenue 12-in main (5)	--	\$420,000	\$457,000	\$472,600
16	Darby Lane 12-in main (5)	--	\$100,000	\$153,000	\$114,100
17	HWY 101 Bore & Jack (5)	--	\$132,000	\$241,000	\$228,700
18	Isolation Valves (5)	--	\$12,000	\$12,000	\$12,000
19	Pump Station All Weather Access Road	--	--	\$128,000	\$127,500
20	Pipe Cleaning Launch Station Stub Out (Blosser Rd)	--	--	--	\$20,400 (13)
	<b>Construction Subtotal</b>	<b>\$13,860,800</b>	<b>\$14,786,000</b>	<b>\$15,577,000</b>	<b>\$15,705,600</b>
21	Contingency	\$3,643,000	\$3,696,500 (9)	\$3,115,400 (11)	\$3,141,120
	<b>Construction Subtotal + Contingency</b>	<b>\$17,503,800</b>	<b>\$18,482,500</b>	<b>\$18,692,400</b>	<b>\$18,846,720</b>
22	Property Allowance	not included (4)	not included (4)	\$500,000 (4)	\$278,964 (4) (14)
23	Design-Phase Engineering				
	Original Agreement (July 2008)		\$744,993	\$744,993	\$744,993
	Budget Revision 1 - Pressure Reduction		\$132,798	\$132,798	\$132,798
	Budget Revision 2 - Biological Survey for HDD		\$4,050	\$4,050	\$4,050
	Budget Revision 3 - Modeling for GSW/Woodlands Turnou		\$8,380	\$8,380	\$8,380
	Budget Revision 4 - Additional Survey Services		\$9,900	\$9,900	\$9,900
	Budget Revision 5 - Utility Investigation (Potholing)		--	--	\$8,883
	Budget Revision 6 - Additional Property Research		--	--	\$805
	Budget Revision 7 - PG&E Savings by Design support		--	--	\$4,164
	Budget Revision 8 - 60% Design Budget Update		--	--	\$140,872
24	Office Engineering during construction		\$175,837	\$175,837	\$175,837
25	Estimated Construction Management (3)	\$2,428,000 (2)	\$1,507,170 (10)	\$1,507,170 (10)	\$1,507,170 (10)
26	Permitting Fees To Date	--	\$1,573	\$1,573	\$6,173
27	Non-Final Design Funds Spent To Date	not included	not included	\$1,402,879 (12)	\$1,705,009 (12)(16)
28	Estimated Other Costs (Assessment, etc)	not included	not included	\$415,420 (12)	\$300,000 (12)(16)
29	Public Outreach	not included	not included	not included	\$76,000 (15)(17)
	<b>WATERLINE PROJECT TOTAL (Rounded to 1000)</b>	<b>\$19,932,000 (4)</b>	<b>\$21,068,000</b>	<b>\$23,596,000</b>	<b>\$23,951,000</b>

Notes:

ENR CCI: March 2008 = 8109

- (1) Costs are from the December 2007 Water and Sewer Master Plan (Cannon).
  - (2) Engineering and Construction Management were originally presented as a "lump sum" amount
  - (3) Includes material testing, construction staking, and environmental monitoring
  - (4) Estimate only. Property allowance not included prior to April 2009 estimate.
  - (5) These work items were added to relieve high pressures on Mesa as an alternative to service pressure regulating valves (See Tech Memo 9). One PRV station at Maria Vista was required initially. Four are recommended for revised project. This was design Budget Revision #1.
  - (6) Based on review of record drawings, this pipeline is already a 10-in main
  - (7) Initial estimate incorporated Master Plan project costs. Revised estimate includes higher unit costs to reflect paving 1 traffic lane, per County standards
  - (8) Updated unit costs include higher costs to reflect paving 1 traffic lane, per County standards
  - (9) Contingency was modified to 25% which is more appropriate for concept design phase.
  - (10) To be provided by CM team - Has not been revised to reflect additional work for construction management of Oakglen, Darby, and Orchard extensions.
  - (11) Contingency was modified to 20% which is more appropriate for 30% design phase.
  - (12) Estimate provided by District staff.
  - (13) Item added during 60% design for potential future pipe cleaning launch station. Cost for potential future receiving station was added to item #7 (pump static)
  - (14) Reduced at 12/9/2009 Board Meeting.
  - (15) Added to January 2010 cost opinion per District
  - (16) Estimate updated by District staff 4/21/10.
  - (17) Updated based on Board action on 3/24/10.
- not included = Item was not included in previous construction cost opinions, but was added to provide a complete assessment of anticipated project costs.

8/18/2010

## Engineering Services for NCSD - SWP Design

## Nipomo CSD

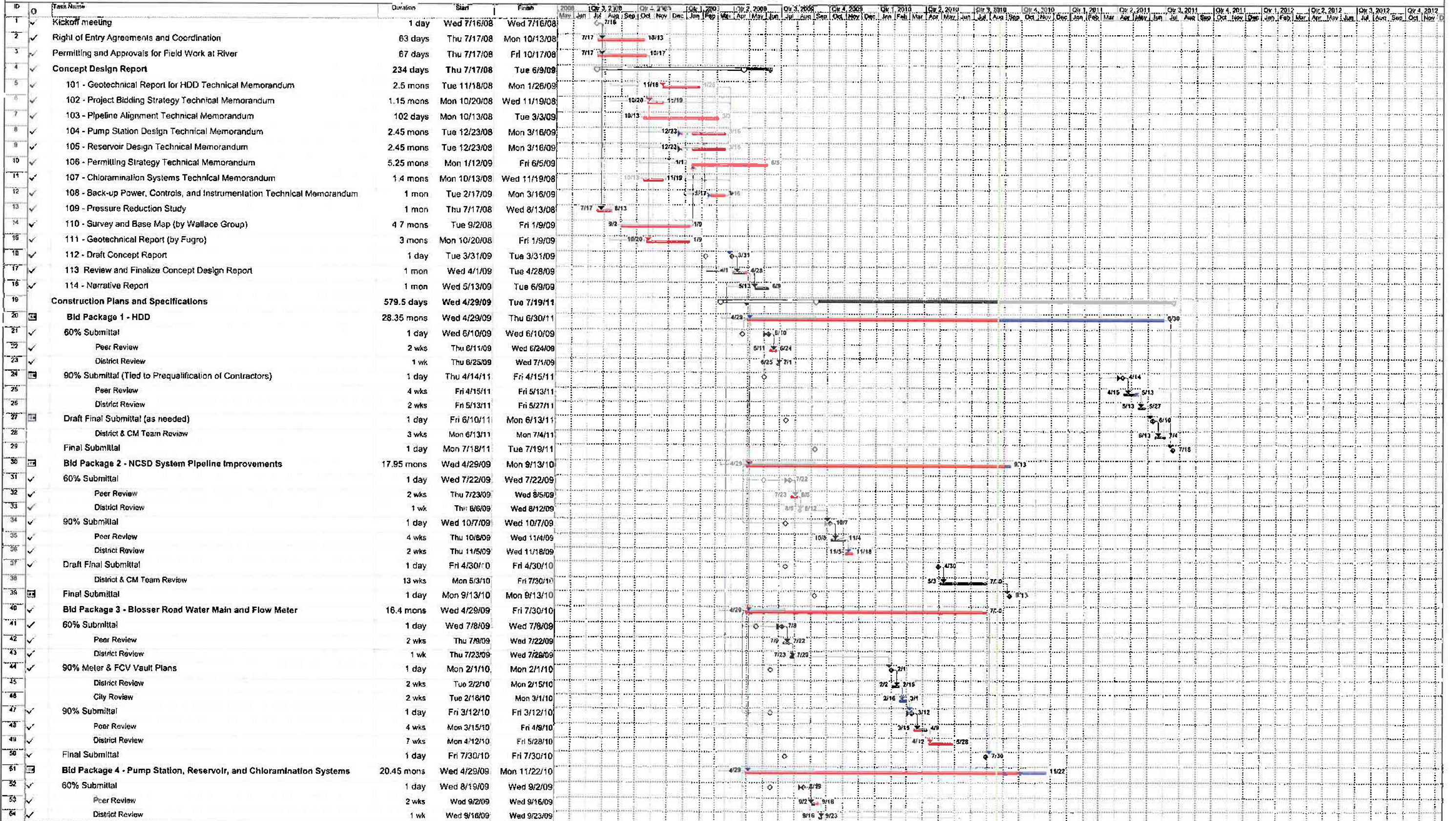
	Total Budget	Amount Previously Invoiced	Current Invoice Amount	% of Budget Earned to date	% of Work Complete
Task Group 1 - Concept Design Report	\$441,553.65	\$441,553.65	\$0.00	100%	100%
Task Group 2 - Permitting	\$38,545.92	\$31,679.73	\$0.00	82%	82%
Task Group 3 - Construction Documents	\$442,933.43	\$444,666.11	\$0.00	100%	92%
Task Group 4 - Project Management	\$82,869.68	\$62,112.63	\$0.00	75%	75%
Task Group 5 - Assistance During Bids	\$48,942.36	\$0.00	\$0.00	0%	0%
Task Group 6 - Office Engineering During Construction (4 Bid Packages)	\$175,836.96	\$2,431.46	\$0.00	1%	1%
Total	\$1,230,682.00	\$982,443.58	\$0.00	80%	77%

	Amount Previously Invoiced	Current Invoice Amount	Total Permitting Fees to date
Permitting Fees	\$6,573.01	\$0.00	\$6,573.01



Print Date: Thu 8/19/10

NCS WATERLINE INTERTIE PROJECT - Thu 8/19/10



Project: WIP Design Schedule  
Date: Thu 8/19/10

Task  
Progress  
Baseline

Milestone  
Baseline Milestone  
Summary

Roll Up Task  
Roll Up Milestone  
Baseline Summary

Roll Up Baseline  
Roll Up Baseline Milestone  
Roll Up Progress

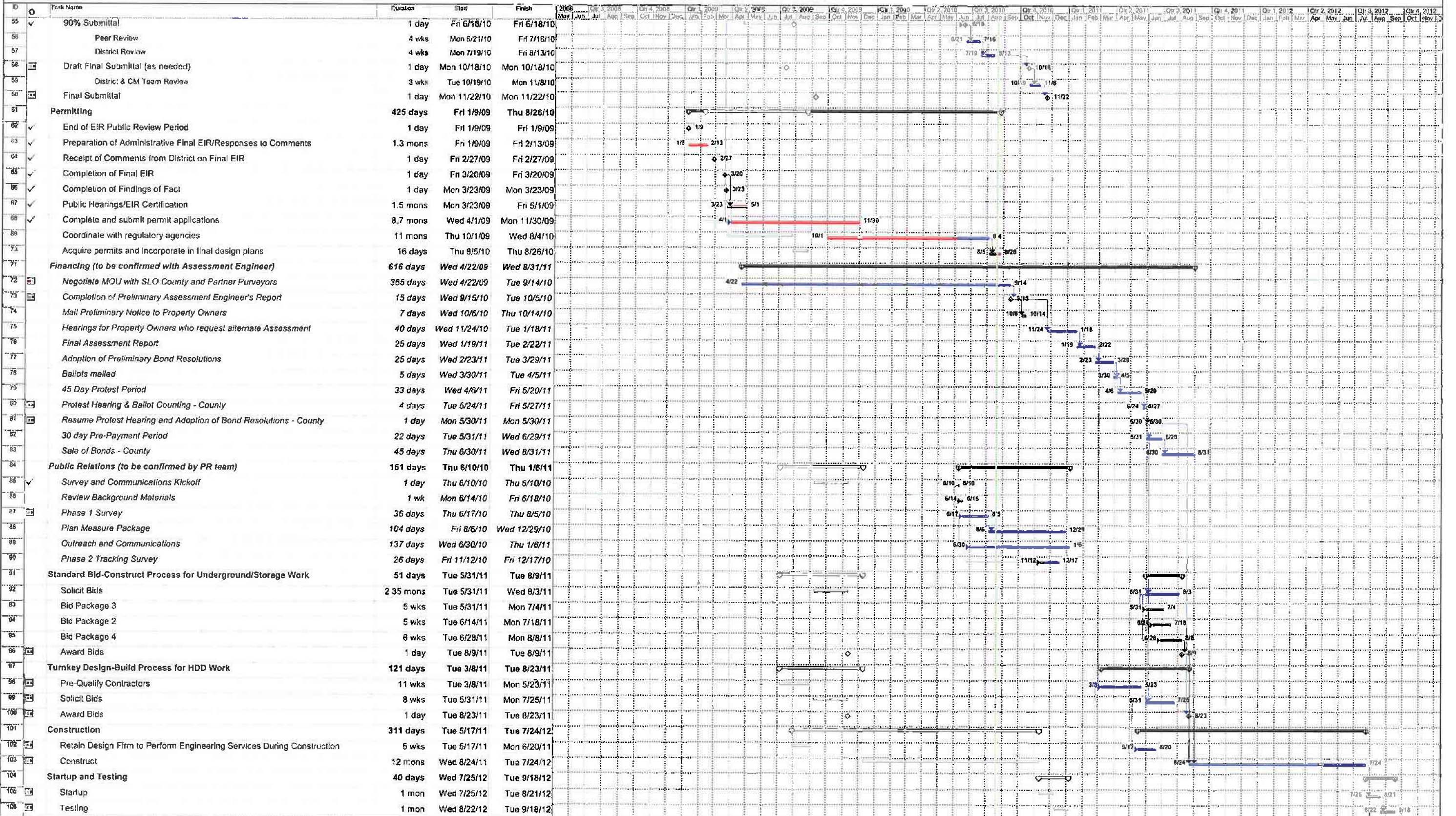
Split  
Baseline Split  
External Tasks

Project Summary  
Group By Summary  
Deadline



Print Date: Thu 8/19/10

NCSO WATERLINE INTERTIE PROJECT - Thu 8/19/10





TO: COMMITTEE MEMBERS

FROM: DON SPAGNOLO  
GENERAL MANAGER



DATE: AUGUST 19, 2010

## AGENDA ITEM

# 4

AUGUST 23, 2010

### **AECOM CONTRACT AMENDMENT FOR WATERLINE INTERTIE PROJECT DESIGN**

#### **ITEM**

Review amendment to AECOM Waterline Intertie Project Final Design Agreement in the amount of \$136,712 for additional services required to complete design [FORWARD RECOMMENDATION TO THE BOARD].

#### **BACKGROUND**

AECOM has completed the 90% design drawings for Bid Packages 2, 3, and 4. During the course of completing the work between the 60% design stage and the 90% design stage, AECOM performed additional work that is anticipated to reduce risk and save cost during construction by reducing unknown conditions faced by Contractors during the bid process thereby reducing the potential for change orders encountered during construction. Staff met with AECOM to discuss tasks that were beyond the original scope of services but are necessary to move forward with the project design and tasks that required more effort and time than was originally budgeted due to unforeseen challenges. AECOM submitted the attached proposal to perform these tasks for \$136,712.

In addition, staff is working with AECOM to identify and estimate costs to finalize the design of the project including but not limited to developing the Operations Memorandum of Understanding contemplated by the Wholesale Water Supply Agreement with the City of Santa Maria, the Operations Plan that will be required by the California Department of Public Health, and interconnections with our partner purveyors. Although these are outstanding items that need to be addressed, these items were not included in the original scope of work. The design of the project has now progressed to a greater degree of completion so a scope of work and cost can be developed for these items. Staff anticipates submitting these items for Committee and Board consideration in September 2010.

#### **RECOMMENDATION**

Staff recommends that the Committee receive AECOM's presentation and provide feedback and a recommendation to the Board.

#### **ATTACHMENT**

AECOM Budget Revision Request #9 Dated August 19, 2010



AECOM  
1194 Pacific Street, Suite 204  
San Luis Obispo CA 93401

805.542.9840 tel  
805.542.9991 fax

August 19, 2010

Don Spagnolo, PE  
General Manager  
Nipomo Community Services District  
148 S. Wilson Street  
Nipomo, CA 93444

**Subject: Waterline Intertie Project Scope Amendment Request for Budget Revision #9**

AECOM is submitting a scope amendment request for waterline intertie project (Budget Revision #9). The extra work items are arranged by the Bid Package the work was performed in. The work documented in this Budget Revision has been completed, but not billed for.

**Cost Savings**

The work performed by AECOM as documented in this Scope Amendment/Budget Revision Request is anticipated to save the District risk and cost during construction by reducing unknown conditions faced by Contractors during the bid process, including additional detail to aid the contractor during bidding; thereby, reducing the amount of change orders encountered during construction. AECOM estimates that the extra work requested in this budget revision will save the District approximately \$260,000 during the Construction Phase of the project.

The strengthened Front End Documents should reduce the incidence of change orders and extra work and give the Construction Administration and Management Team the tools necessary to reasonably manage the contractor's extra work and change orders. Better management tools for change orders and extra work, including how to handle defective work, could result in a potential project savings of one to three percent of the construction total.

Following is a detailed description of the services performed by AECOM in preparation for the 90% and Draft Final Design Submittals. It is AECOM's opinion that Bid Packages 2, 3, and 4 will not require additional full submittals prior to releasing the Bid Packages out to bid. Bid Package #1 is at the 60%+ level and will not be developed beyond this level until the assessment ballots have been mailed and the prequalification of bidders for the HDD work begins.

**BID PACKAGE #1**

**Research and Documentation of Mining Rights in Santa Maria River**

AECOM has been researching the extents and potential impacts the Troesh mining rights in the Santa Maria River could have on the pipeline. Research has focused on defining the actual areas currently permitted for mining, as well as the areas on the Biorn property that Troesh has mining rights. This work includes coordination with several parties including County Planning Staff, District

Staff and Consultants, District legal counsel, and representatives from Roxsand/ Troesh. The research is necessary to make design decisions to protect the pipeline from impacts that could be caused by surface mining in the river. The resulting design change is to widen the permanent easement to 100-ft wide from 30-ft wide, and AECOM recommends the District negotiate conditions for surface mining in the vicinity of the pipeline with the mining rights holder.

## **BID PACKAGE #2**

### **Additional pothole work**

Discoveries made during the late design phase and information obtained from the previous round of pothole work required additional potholes to identify utilities that are in potential conflict with the 12-in pipeline and appurtenance. Discovery of a fiber optic duct bank which was in conflict with the proposed pipeline alignment allowed AECOM to revise the alignment prior to construction. The locations of additional utility crossings were confirmed in the field, thereby reducing some construction phase risk to the District.

Construction phase cost savings of \$20,000.

### **Realign portions of Orchard to avoid fiber duct bank**

A fiber optic duct bank was discovered during pothole work, requiring realignment and redesign of 800-ft of 12-in pipeline to avoid the fiber optic duct bank. The duct bank was not depicted on phone company record drawings.

Construction phase cost savings of \$15,000.

### **Amend Plans and Specifications to Include Arborist Requirements**

AECOM added the tree protection and mitigation requirements to the construction plans as prepared by the District's Arborist. The tree protection plan is required by the EIR, and documents the condition of significant trees in the vicinity of the proposed work, as well as recommending methods to protect the trees.

Potential construction phase cost savings of \$70,000. (Potential cost from a claim for killing or extensively damaging one or more trees could result if trees are not protected during construction. The risk and cost associated with not protecting the trees identified could vary significantly.)

### **PRV Station Electrical and SCADA**

Each PRV station required electrical and SCADA system design beyond the anticipated level. Items of concern that were not anticipated include: back-up power, flood switches, and SCADA antenna/PG&E coordination.

### **PRV Station Design**

The site constraints for the PRV stations on Orchard Road, and on Frontage Road required additional work including design of a wooden retaining wall, piping to and from the PRV stations that cross roads and existing utilities (some of which require relocation) in the vicinity of the PRV stations, and encountered existing landscaping or structures that required additional effort to avoid.

The PRV station on Southland is tying into an existing water main that was much lower than anticipated requiring design changes to the PRV station and the 12-in main to accommodate the piping to the PRV Station.

Construction phase cost savings of \$7,000 (from potential change order during construction).

#### **Caltrans Encroachment Permit Resubmittals**

Caltrans requested several revisions to the plans on separate occasions, requiring resubmittal of the plans and specifications to Caltrans for review. In each case the revisions were new comments from Caltrans. The Encroachment Permit has been issued by Caltrans.

#### **Front End Document Revision**

The current round of submittals (90% and Draft Final) contain the third unique set of Front End Documents for the project, the District's standard front end documents are currently being used. The District standard front end documents are not geared towards major public works projects, and required extensive supplementing by AECOM. The supplements prepared by AECOM are designed to control costs during construction, with language on work directives and changes in the work, delays and definitions of delays, definition of roles of owner's representatives, and testing and control of work.

Potential construction phase cost savings of 1 to 3% of the construction phase cost.

#### **BID PACKAGE #3**

##### **Jack and Bore Under 72-in Storm Drain**

The first round of pothole work indicated that the water main would need to be routed under the existing 72-in storm drain crossing Blosser Road. Installing a casing is the only viable solution to meet the challenges of crossing the 72-in storm drain (on an angle) because of the depth of the work, the year round presence of storm water in the storm drain, and the necessity to conform with California Department of Public Health Separation Guidelines.

Construction phase cost savings of \$45,000. (The additional cost would be the result of paying for a jack and bore as part of a non-competitive change order.)

##### **Additional Pothole Work**

Discoveries made during the late design phase and information obtained from the previous round of pothole work required additional potholes to identify utilities that are in potential conflict with the 18-in pipeline and appurtenance. AECOM was unable to precisely locate the 42-in storm drain crossing, but the inlet and outlet were discovered, and the probable location was determined to be deep enough to allow the 18-in pipeline to cross above the 42-in storm drain.

##### **Redesign Crossing at 48-in Storm Drain**

Based on the additional pothole work, the 18-in pipeline design details were revised to show the pipeline crossing above the 42-in storm drain instead of below it.



Construction phase cost savings of \$15,000. (Potential increase in project cost if a deep trench crossing was designed and bid.)

#### **Flow Control Vault Design, SCADA, Electrical**

Issues surrounding who will own, operate, and maintain various pieces of the flow control and metering vault have required additional coordination with and conformation with City and District requirements for design and operation of the flow control and metering station.

Construction phase cost savings of \$13,000. (Extra costs in the form of change orders during construction.)

#### **Property Research South of Levee**

Conflicting information on who owned and has rights to a piece of property between the levee and Atlantis Drive required extensive research by AECOM and AECOM's subconsultants. The research indicates that North Preisker Ranch Inc., still owns the parcel in question, although there are easements granted to the City of Santa Maria and Santa Barbara County Water Conservation and Flood Control District. Santa Barbara County had requirements for the property that indicated they owned the parcel. Though not the property owners, SB County have easement rights that are being conformed to in the design documents. Additional easements will be required from North Preisker Ranch Inc. and are included in the easement descriptions.

#### **BID PACKAGE #4**

##### **PG&E Coordination**

Prepared for and attended a meeting with PG&E regarding electrical service at the Pump Station Site.

##### **Chloramination systems**

AECOM provided additional details for the chloramination systems to get more competitive bids from contractors. The additional work included preparing details and orientations for the tank nozzles, inlets, and outlets. The size of the well sites requires precise control of the layout to allow District staff adequate access for operation and maintenance of the systems. If the contractor's assumed nozzle orientations needed to be revised during construction it would result in a change order.

AECOM has also spent additional effort researching current state of the art residual monitoring and metering technology – many of the common meters have negative operating characteristics such as large volumes of discharge water from sampling, and/or slow reaction times to changing water quality. The resulting meter selection will make the chloramination system easier and less expensive to operate resulting in a better system for NCSD.

Construction phase cost savings of \$7,500 (\$1,500 per site).

**Redesign Access Road from 20-ft wide to 16-ft wide**

To keep the road construction costs down and to reduce the amount of property required to construct the road, the access road to the pump station was reduced from 20-ft wide to 16-ft wide, and the alignment shifted to keep the entire road on properties owned by Linda Vista Farms.

Construction phase cost savings of \$17,000.

**Revise Site Grading**

Shifting the tank site to acquire an additional 12.5-ft of property to protect the 25-ft wide well access easement for Linda Vista Farms required re-grading the tank and booster station site. The easement was supposed to be abandoned by Linda Vista Farms, but that may or may not be abandoned in time for the project. Concessions were made in the grading design to allow continued access to the easement from the access road.

**Revise Design of Overflow System**

Decreasing the size and depth of the onsite retention basin to meet the required onsite storage volume and to allow it to fit on the site, required redesigning the tank emergency overflow so that it would drain overland to the retention basin instead of flow inside a buried pipe.

Construction phase cost savings of \$8,000.

**Onsite Storm Water System**

Grading required for the tank and pump station site necessitated design of storm water swales and an onsite retention basin. AECOM researched County requirements and incorporated a storm water system to protect equipment and preserve the site.

**Design of Electrical Room and Design of Pump Station HVAC System**

A dedicated electrical room was added to the pump station building to allow for better heating and cooling of the electrical components, especially the VFDs which require significant cooling. Two HVAC systems with separate air conditioning units will allow the District to maintain independent temperatures in the electrical and pump rooms, thereby reducing the cost to cool the electrical components. Because of the amount of heat generated by the VFDs and pump motors, detailed HVAC plan sheets were prepared for the project, which was not anticipated in the original proposal.

**Public lot Process and Meetings**

AECOM and AECOM's subconsultant Wallace Group have attended several meetings with SLO County Planning staff to prepare the public lot application and address concerns and process requirements that the County Planning Department may have.

**Realign Existing 12-in Watermain in Santa Maria Vista Road**

A portion of the 12-in waterline at Santa Maria Vista Road and the pump station access road appears to be located outside of the offered road ROW. The configuration of the 12-in watermain and the location outside of the ROW required redesign of the 12-in watermain to relocate it to the ROW and to allow connection with the 24-in main from the pump station.

Construction phase cost savings of \$12,000 (eliminates a potential change order).

#### **Driveway for Access to Well Easement**

The access road and site grading decisions impact the ability of the easterly property owner to access the well easement on their property. AECOM designed a driveway at the end of the access road to maintain the property owner's access to this easement.

Construction phase cost savings of \$6,000 (eliminates a potential change order).

#### **Reduce 24-in Watermain to 4-ft of Cover**

The original waterline design was to have the 24-in main across the agriculture fields at 6-ft of cover based on the assumption that portions of the line would be outside of the road. Since this is no longer the case, the pipeline was redesigned at 4-ft of cover and located within the access road to reduce construction cost.

Construction phase cost savings of \$26,000.

#### **Permit Fees**

AECOM has accrued money to pay for permit fees that were to be directly reimbursed by NCSD. However, the permit fees were billed on regular invoices as other costs, without increasing the project budget to cover the fees. AECOM is requesting the project budget be increased by \$6,000 to cover the permit fees. See attached table of fees.

#### **Property and Easement Preparation (by Wallace Group)**

Wallace Group has requested additional budget to cover extra work performed on the project. The work includes revising the Tentative Public Lot Map, and preparing additional revisions to the legal descriptions for the temporary and permanent easements based on realignments and changes to easements.

Total Budget for Scope Amendment \$136,712, see attached budget for breakdown of fee.

Yours sincerely,



Mike Nunley, PE  
Project Manager



Josh Reynolds, PE  
Project Engineer

Attachments: Budget Revision #9  
Wallace Group Scope Amendment

**Waterline Intertie Project  
Budget Revision #9**

8/19/2010 Page 1 of 2 AECOM

# Project Budget

Waterline Intertie Project  
Budget Revision #9

Nipomo Community Services District

Task Description	Personnel Hours					Budget				
	Principal Engineer	Senior Engineer	Associate Engineer	Drafter	Total Hours	Labor	General Project Expenses	Subconsultants	Permit Fees	Total Non-Labor
Other										
Permit fees						\$ -			\$ 6,000	\$ 6,000
Wallace Group						\$ -		\$ 13,284		\$ 13,284
						\$ -				\$ -
						\$ -				\$ -
						\$ -				\$ -
						\$ -				\$ -
						\$ -				\$ -
Subtotal	46	163	176	490	875	\$ 108,730	\$ -	\$ 13,284	\$ 6,000	\$ 19,284
Total						\$ 108,730	\$ 8,698	\$ 13,284	\$ 6,000	\$ 27,982
										\$ 136,712

Personnel Category \$/HR  
Principal Engineer \$200.00  
Senior Engineer \$160.00  
Associate Engineer \$125.00  
Drafter \$105.00



TO: COMMITTEE MEMBERS

FROM: DON SPAGNOLO  
GENERAL MANAGER



DATE: AUGUST 19, 2010

## AGENDA ITEM

# 5

AUGUST 23, 2010

### SET NEXT COMMITTEE MEETING

#### ITEM

Set next committee meeting [Set Date/Time].

#### BACKGROUND

The Committee usually meets on the Monday preceding the second Board meeting of the month.

#### RECOMMENDATION

Staff recommends that the Committee tentatively set a meeting at 2 pm on Monday, September 20, 2010. If staff does not have policy issues to bring to the committee at that time, the meeting can be deferred to the following month with Committee member concurrence.

#### ATTACHMENT

NONE